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ABSTRACT OF DISCLOSURE

10 The present invention relates to a packet transfer
communication device. More particularly, the present
invention relates to a congestion control unit to
designed handle communication at high speed by reducing a
load of congestion processing conducted in a core router
and an edge router. The congestion control unit
comprises: an input data measurement section for
15 measuring a quantity of packet data to be inputted; and a
packet discarding judgment section for conducting a
discarding judgment of an arriving packet and outputting
a packet not to be discarded into an output queue and the
input data coefficient section, the input data
20 measurement section including a coefficient section for
outputting a constant quantity of packet data, which are
inputted from the packet discarding judgment section, at
a predetermined period and also including a smooth queue
length calculating section for accumulating data
25 outputted from the coefficient section and outputting a
constant quantity of accumulated data in the
predetermined period, wherein the packet discarding
judgment section conducts congestion control by a packet
discarding judgment based on a smooth queue length which
30 is a quantity of accumulated data composed of a
difference between a quantity of input data and a
quantity of output data at each predetermined period in
the smooth queue length calculating section.